

### COMBINED DECLARATION AND POWER OF ATTORNEY

## (ORIGINAL, DESIGN, NATIONAL STAGE OF PCT, SUPPLEMENTAL, DIVISIONAL, CONTINUATION, OR C-I-P)

As a below named inventor, I hereby declare that:

#### TYPE OF DECLARATION

This declaration is for a continuation-in-part (C-I-P) application.

### **INVENTORSHIP IDENTIFICATION**

My residence, post office address and citizenship are as stated below, next to my name. I believe that I am an original, first and joint inventor of the subject matter that is claimed, and for which a patent is sought on the invention entitled:

### TITLE OF INVENTION

NOVEL GENES ENCODING PROTEINS HAVING PROGNOSTIC, DIAGNOSTIC, PREVENTIVE, THERAPEUTIC, AND OTHER USES

#### SPECIFICATION IDENTIFICATION

The specification was filed on January 12, 2001, as Serial No. 09/759,130.

### ACKNOWLEDGMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose information, which is material to patentability as defined in 37, Code of Federal Regulations, Section 1.56, and which is material to the examination of this application, namely, information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent.

### CLAIM FOR BENEFIT OF EARLIER U.S./PCT APPLICATION(S) UNDER 35 U.S.C. SECTION 120

I hereby claim the benefit, under Title 35, United States Code, Section 120, of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose information that occurred between the filing date of the

prior application(s) and the national or PCT international filing date of this application.

		OR PCT INTERNATION R BENEFIT UNDER 35		
U.S. APPLIC	CATIONS	Status		
U.S. APPLICATIONS	U.S. FILING DATE	Patented	Pending	Abandoned
1. 09/578,063	24 May 2000		х	
2. 09/333,159	14 June 1999		х	
3. 09/596,194	16 June 2000		Х	
4. 09/342,364	29 June 1999		х	
5. 09/608,452	30 June 2000		Х	
6. 09/393,996	10 Sept 1999		х	
7. 09/420,707	19 Oct 1999		х	
8. 09/602,871	23 June 2000		х	
9. 09/479,249	7 Jan 2000		х	
10. 09/559,497	27 April 2000		х	
PCT APPLICATION THE U.S.	DESIGNATING			
PCT APPLICATION NO.	PCT FILING DATE	U.S. APPLICATION NOS. ASSIGNED (IF ANY)		

#### **POWER OF ATTORNEY**

I hereby appoint the following practitioner(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

APPOINTED PRACTITIONER(S)	REGISTRATION NUMBER(S)
Scott A. Brown	32,724
Susan M. Perkins	36,405
Jean M. Silveri	39,030
George C. Jen	39,239
Theodore Allen	41,578
Jill E. Uhl	43,213
Kerri Pollard Schray	47,066

#### SEND CORRESPONDENCE TO

### **DIRECT TELEPHONE CALLS TO:**

Jean M. Silveri Millennium Pharmaceuticals, Inc. 75 Sidney Street Cambridge, MA 02139

Jean M. Silveri 617-679-7336

DIRECT FACSIMILE CORRESPONDENCE TO:

Jean M. Silveri 617-374-0074 or 617-551-8820

### **DECLARATION**

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

	SIGNATURE(S)
	//// //
Christopher C. Fraser	
Inventor's signature	x Ch
Date K 6/18/01	
	on, MA 6 CAKE Street C& 415/4
	52 Grassland Street, Lexington, MA 02421
<b>Country of Citizenship</b>	Canada
	*****
Thomas M. Barnes	
Inventor's signature	
Date	
Residence Brooklin	ne MA
	12 Mason Terrace, Brookline, MA 02446
Country of Citizenship	· · · · · · · · · · · · · · · · · · ·
Country of Citizenship	Ausualia
John D. Sharp	
Inventor's signature	
Date	
Residence Arlingto	n. MA
•	245 Park Avenue, Arlington, MA 02476
	United States of America
, <u>-</u>	
Susan J. Kirst	
Inventor's signature	
Date	
Residence Brooklin	ne, MA
P st Office Address	12 Dana Street, Brookline, MA 02445
<b>Country of Citizenship</b>	United States of America
40.20	
Paul S. Myers	
Inventor's signature	
Date	
Residence Cambrid	ge, MA
Post Office Address	14 Cornelius Way, Cambridge, MA 02141

Country of Citizenship United States of America

Christopher C. Fraser Inventor's signature Date	
Residence Lexingto	52 Grassland Street, Lexington, MA 02421
Thomas M. Barnes Inventor's signature Date  Residence Brooklin Post Office Address Country of Citizenship	ne, MA 12 Mason Terrace, Brookline, MA 02446
Country of Citizensinp	
	on, MA 245 Park Avenue, Arlington, MA 02476 United States of America
Susan J. Kirst Inventor's signature Date	
	ne, MA 12 Dana Street, Brookline, MA 02445 United States of America
Paul S. Myers Inventor's signature Date	
	lge, MA 14 Cornelius Way, Cambridge, MA 02141 United States of America

Christopher C. Fraser Inventor's signature
Date
Residence Lexington, MA Post Office Address 52 Grassland Street, Lexington, MA 02421 Country of Citizenship Canada
Thomas M. Barnes Inventor's signature Date
Residence Brookline, MA Post Office Address 12 Mason Terrace, Brookline, MA 02446 Country of Citizenship Australia
John D. Sharp Inventor's signature
Date × 6-70-01 //
Residence Arlington, MA Post Office Address 245 Park Avenue, Arlington, MA 02476 Country of Citizenship United States of America
Susan J. Kirst Inventor's signature Date
Residence Brookline, MA Post Office Address 12 Dana Street, Brookline, MA 02445 Country of Citizenship United States of America
Paul S. Myers Inventor's signature Date
Residence Cambridge, MA  Post Office Address 14 Cornelius Way, Cambridge, MA 02141  Country of Citizenship United States of America

Christopher C. Fraser	
Inventor's signature _	
Date	
Residence Lexington	ı. MA
	2 Grassland Street, Lexington, MA 02421
Country of Citizenship C	
country of components	
Thomas M. Barnes	·
Inventor's signature _	
Date	
Residence Brookline	, MA
Post Office Address 12	2 Mason Terrace, Brookline, MA 02446
Country of Citizenship A	Australia
	****
John D. Sharp	
Inventor's signature	
Date	
Residence Arlington	
	45 Park Avenue, Arlington, MA 02476
Country of Citizenship (	Jnited States of America
Susan J. Kirst	./
Inventor's signature 😕	Susan - Kust
Date 10 July	2021
Residence Brookline	MA
	2 Dana Street, Brookline, MA 02445
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Country of Citizensmp (	nined States of America
Paul S. Myers	
Inventor's signature	
Date	
Residence Cambridg	e. MA
_	4 Cornelius Way, Cambridge, MA 02141
Country of Citizenshin I	

Christopher C. Fraser		
Inventor's signature		
Date		
Residence Lexingto	on, MA	
Post Office Address	52 Grassland Street, Lexington, MA 02421	
Country of Citizenship	Canada	
Thomas M. Barnes		
Inventor's signature		
Date		· · · · · · · · · · · · · · · · · · ·
Residence Brooklin	ne, MA	
Post Office Address	12 Mason Terrace, Brookline, MA 02446	
<b>Country of Citizenship</b>	Australia	•
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John D. Sharp		
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Date		· · · ·
Residence Arlingto		
Post Office Address	245 Park Avenue, Arlington, MA 02476	
<b>Country of Citizenship</b>	United States of America	
	*****	
Susan J. Kirst		•
Inventor's signature		
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Residence Brooklin	ne, MA	
Post Office Address	12 Dana Street, Brookline, MA 02445	
<b>Country of Citizenship</b>	United States of America	
Paul S. Myers	Ο Λ.	
Inventor's signature	xtanl Mm	
Date * 4 24	(0)	
	lge, MA	
	14 Cornelius Way, Cambridge, MA 02141	171 Satz St. Wn: 1724
	United States of America	J.P. MA 02130

Kevin R. Leiby Inventor's signature Date × 6-20-0 Residence Natick, MA 4 Skowhegan Way, Natick, MA 01760 **Post Office Address** Country of Citizenship United States of America Douglas A. Holtzman Inventor's signature Date Jamaica Plain, MA Residence 821 Centre Street, No 6, Jamaica Plain, MA 02130 **Post Office Address** Country of Citizenship United States of America Sean A. McCarthy Inventor's signature Date Residence San Diego, CA 3625 Dupont Street, San Diego, CA 92106 **Post Office Address** Country of Citizenship United Kingdom Nicholas Wrighton Inventor's signature Date Winchester, MA Residence **Post Office Address** 18 Lloyd Street, Winchester, MA 01890 Country of Citizenship British Charles R. Mackay Inventor's signature Date Residence Vaucluse, Australia Post Office Address 1 Belah Gardens, Vaucluse NSW 2030, Australia

Country of Citizenship Australia

Kevin R. Leiby
Inventor's signature
DateResidence Natick, MA
Post Office Address 4 Skowhegan Way, Natick, MA 01760
Country of Citizenship United States of America
Country of Chazensmp Chicae Sauces of Famorica
*****
Douglas A. Holtzman A A A
Inventor's signature & Douglas / Whyman
Date X 6 19 01
Residence Jamaica Plain, MA
Post Office Address 821 Centre Street, No 6, Jamaica Plain, MA 02130
Country of Citizenship United States of America
•
Sean A. McCarthy
Inventor's signature
Date
Residence San Diego, CA
Post Office Address 3625 Dupont Street, San Diego, CA 92106
Country of Citizenship United Kingdom
Nicholas Wrighton
Inventor's signature
Date
Residence Winchester, MA
Post Office Address 18 Lloyd Street, Winchester, MA 01890
Country of Citizenship British
Charles D. Maskey
Charles R. Mackay
Inventor's signature
Date
Residence Vaucluse, Australia
Post Office Address 1 Belah Gardens, Vaucluse NSW 2030, Australia
Country of Citizenship Australia

Kevin R. Leiby
Inventor's signature
Residence Natick, MA Post Office Address 4 Skowhegan Way, Natick, MA 01760 Country of Citizenship United States of America
Douglas A. Holtzman Inventor's signature Date
Residence Jamaica Plain, MA  Post Office Address 821 Centre Street, No 6, Jamaica Plain, MA 02130  Country of Citizenship United States of America
Sean A. McCarthy Inventor's signature Date \( \sqrt{7} \) Residence San Diego, CA Post Office Address 3625 Dupont Street, San Diego, CA 92106 Country of Citizenship United Kingdom
Nicholas Wrighton Inventor's signature Date
Residence Winchester, MA  Post Office Address 18 Lloyd Street, Winchester, MA 01890  Country of Citizenship British
Charles R. Mackay Inventor's signature Date
Residence Vaucluse, Australia Post Office Address 1 Belah Gardens, Vaucluse NSW 2030, Australia Country of Citizenship Australia

Kevin R. Leiby
nventor's signature
Date
Residence Natick, MA
Post Office Address 4 Skowhegan Way, Natick, MA 01760
Country of Citizenship United States of America
Douglas A. Holtzman
nventor's signature
Date
Residence Jamaica Plain, MA
Post Office Address 821 Centre Street, No 6, Jamaica Plain, MA 02
Country of Citizenship United States of America
Sean A. McCarthy
nventor's signature
Date
Residence San Diego, CA
Post Office Address 3625 Dupont Street, San Diego, CA 92106
Country of Citizenship United Kingdom
Nicholas Wrighton
nventor's signature, X Nicholas Wor
Date × 6/20/01
Residence Winchester, MA
Post Office Address 18 Lloyd Street, Winchester, MA 01890
Country of Citizenship British
Charles R. Mackay
nventor's signature
Date
Residence Vaucluse, Australia
Post Office Address 1 Belah Gardens, Vaucluse NSW 2030, Austral
Country of Citizenshin Australia

Kevin R. Leiby
nventor's signature
Date
Douglas A. Holtzman Inventor's signature Date
Residence Jamaica Plain, MA Post Office Address 821 Centre Street, No 6, Jamaica Plain, MA 0213 Country of Citizenship United States of America
Sean A. McCarthy Inventor's signature Date
Residence San Diego, CA Post Office Address 3625 Dupont Street, San Diego, CA 92106 Country of Citizenship United Kingdom
Nicholas Wrighton Inventor's signature Date
Residence Winchester, MA Post Office Address 18 Lloyd Street, Winchester, MA 01890 Country of Citizenship British
Charles R. Mackay Inventor's signature  Jul 25 th 2001
Residence Vaucluse, Australia Post Office Address 1 Belah Gardens, Vaucluse NSW 2030, Australia Country of Citizenship, Australia

Andrew D.J. Goodearl

Inventor's signature Date X

19 June 2001

Residence

Natick, MA

Post Office Address 13 Indian Ridge Road, Natick, MA 01760
Country of Citizenship United States of America 13.1. History Acceptable



## UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231



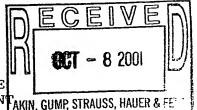
OCTOBER 02, 2001

PTAS

AKIN, GUMB, STRAUSS, HAUER, ET AL GARY D. COLBY PH.D., J.D. ONE COMMERCE SQUARE - 2005 MARKET STREET SUITE 2200 PHILADELPHIA, PA 19103



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UNITED STATES PATENT AND TRADEMARK OFFICE NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 07/27/2001 (

REEL/FRAME: 012021/0274

NUMBER OF PAGES: 14

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

FRASER, CHRISTOPHER

DOC DATE: 06/18/2001

ASSIGNOR:

BARNES, THOMAS M.

DOC DATE: 06/19/2001

ASSIGNOR:

HOLTZMAN, DOUGLAS A.

DOC DATE: 06/19/2001

**ASSIGNOR:** 

GOODEARL, ANDREW D.J.

DOC DATE: 06/19/2001

ASSIGNOR:

SHARP, JOHN D.

DOC DATE: 06/20/2001

ASSIGNOR:

LEIBY, KEVIN R.

DOC DATE: 06/20/2001

ASSIGNOR:

WRIGHTON, NICHOLAS

DOC DATE: 06/20/2001

OCT - 8 2001

### 012021/0274 PAGE 2

ASSIGNOR:

MACKAY, CHARLES R. DOC DATE: 06/28/2001

ASSIGNOR:

MYERS, PAUL S. DOC DATE: 06/28/2001

ASSIGNOR:

MCCARTHY, SEAN A. DOC DATE: 07/02/2001

ASSIGNOR:

KIRST, SUSAN J. DOC DATE: 07/10/2001

ASSIGNEE:

MILLENNIUM PHARMACEUTICALS, INC. 75 SIDNEY STREET CAMBRIDGE, MASSACHUSETTS 02139

SERIAL NUMBER: 09759130

FILING DATE: 01/12/2001

PATENT NUMBER: ISSUE DATE:

SHARON LATIMER, EXAMINER ASSIGNMENT DIVISION OFFICE OF PUBLIC RECORDS FORM PTO-1595 (Modified) 1-31-92



**ER SHEET** 101796063 ER SHEE PATENTS UNLY

U.S. DEPARTMENT OF COMMERCE Patent and Trademark Office

Attorney Docket

	No.: 10147-66US
To the Assistant Commissioner of Patents and Trademarks: Please rec	cord the attached original documents or copy thereof.
1. Name of conveying party(ies):  Christopher C. Fraser Thomas M. Barnes John D. Sharp Susan J. Kirst Paul S. Myers Kevin R. Leiby  3. Nature of conveyance:  [X] Assignment [] Merger [] Security Agreement [] Change of Name [] Other:  Execution Date: Christopher C. Fraser - 6/18/01; Thomas M. Barnes, Douglas A. Holtzman, Andrew D.J. Goodearl - 6/19/01; John D. Sharp, Kevin R. Leiby, Nicholas Wrighton - 6/20/01; Charles R. Mackay - 6/25/01; Paul S. Myers - 6/28/01; Sean A. McCarthy - 7/2/01; Susan J. Kirst - 7/10/01	2. Name and address of receiving party(ies):  Millennium Pharmaceuticals, Inc. 75 Sidney Street Cambridge, MA 02139  A Massachusetts Corporation
4. Application number(s) or patent number(s):  If this document is being filed together with a new application,	the execution date of the application is:
A. Patent Application No.(s): 09/759,130 filed January 12, 2001	B. Patent No.(s):
Additional numbe	ers attached?[ ] Yes [ X] No
Name and address of party to whom correspondence document should be mailed:	6. Total number of applications and patents involved: [1]
GARY D. COLBY, Ph.D., J.D. AKIN, GUMP, STRAUSS, HAUER & FELD, L.L.P. One Commerce Square - 2005 Market Street - Suite 2200 Philadelphia, PA 19103 Telephone: (215) 965-1200	7. Total fee (37 C.F.R. 3.41) Cal. 1 x \$40.00 = \$40.00  [X] Check enclosed [X] Authorized to charge to deposit account for any underpayment or to credit deposit account for any overpayment.
Direct Dial: (215) 965-1285 Facsimile: (215) 965-1210 E-Mail: gcolby@akingump.com	8. Deposit account number: <u>50-1017</u> (Billing No.: 210147.0066)
DO NOT	T USE THIS SPACE
9. Statement and signature To the best of my knowledge and belief, the foregoing information is to 08/01/2001 GTON11 00000107 09759130 01 FC:581 40.00 0P  Gary D. C Iby, Ph.D., J.D. Name of Person Signing  OMB No. 0651-0011 (exp. 4/94)	Total number of pages including cover sheet, attachments and document:

### Practitioner's Docket No. MPI2000-535OMNI

**PATENT** 

For: U.S. Rights
For: U.S. Application

By: Inventors

### ASSIGNMENT OF INVENTION

In consideration of the payment by ASSIGNEE to ASSIGNORS of the sum of One Dollar (\$1.00), the receipt of which is hereby acknowledged, and for other good and valuable consideration,

### **ASSIGNORS:**

Christopher C. Fraser

52 Grassland Street L LAKE Street 446

Lexington, MA 02421

Nationality: Canada

Thomas M. Barnes 12 Mason Terrace

Brookline MA 02446

Nationality: Australia

John D. Sharp

245 Park Avenue

Arlington, MA 02476

Nationality: United States of America

Susan J. Kirst

12 Dana Street

Brookline, MA 02445

Nationality: United States of America

Paul S. Myers

14 Cornelius Way

Cambridge, MA 02141

Nationality: United States of America

Kevin R. Leiby

4 Skowhegan Way

Natick, MA 01760

Nationality: United States of America

hereby sell, assign and transfer to

Douglas A. Holtzman

821 Centre Street, No. 6

Jamaica Plain, MA 02130

Nationality: United States of America

Sean A. McCarthy

3625 Dupont Street

San Diego, CA 92106

Nationality: United Kingdom

Nicholas Wrighton

18 Lloyd Street

Winchester, MA 01890

Nationality: British

Charles R. Mackay

1 Belah Gardens

Vaucluse NSW 2030

Australia

Nationality: Australia

Andrew D.J. Goodearl

13 Indian Ridge Road

Natick, MA 01760

Nationality: United States of America

**ASSIGNEE:** 

MILLENNIUM PHARMACEUTICALS, INC.

75 Sidney Street

Cambridge, MA 02139

State of Incorporation: Delaware

and the successors, assigns and legal representatives of the ASSIGNEE the entire right, title and interest for the United States and its territorial possessions and all foreign countries in and to inventions described in the patent application entitled:

# NOVEL GENES ENCODING PROTEINS HAVING PROGNOSTIC, DIAGNOSTIC, PREVENTIVE, THERAPEUTIC, AND OTHER USES

and which is found in (37 C.F.R. section 3.21) U.S. application no. 09/759,130 filed on January 12, 2001 and, in and to, all Letters Patent to be obtained for said invention by the above application or any continuation, division, renewal, or substitute thereof, and as to letters patent any reissue or re-examination thereof; said invention, application and Letters Patent to be held and enjoyed by said ASSIGNEE for its own use and behalf and for its successors, assigns and legal representatives, to the full end of the term for which said Letters Patent may be granted as fully and entirely as the same would have been held by us had this assignment and sale not been made; we hereby convey all rights arising under or pursuant to any and all international agreements, treaties or laws relating to the protection of industrial property by filing any such applications for Letters Patent. We hereby acknowledge that this assignment, being of the entire right, title and interest in and to said invention, carries with it the right in ASSIGNEE to apply for and obtain from competent authorities in all countries of the world any and all Letters Patent by attorneys and agents of ASSIGNEE's selection and the right to procure the grant of all such Letters Patent to ASSIGNEE for its own name as assignee of the entire right, title and interest therein.

ASSIGNORS hereby covenant that no assignment, sale, agreement or encumbrance has been or will be made or entered into which would conflict with this assignment.

ASSIGNORS further covenant for ourselves and our executors and administrators that ASSIGNEE will, upon its request, be provided promptly with all pertinent facts and documents relating to said invention and said Letters Patent and legal equivalents as may be known and accessible to ASSIGNORS, their executors and administrators and will testify as to the same in any interference, litigation or proceeding related thereto and will promptly execute and deliver to ASSIGNEE or its legal representatives any and all papers, instruments or affidavits required to apply for, obtain, maintain, issue and enforce said application, said invention and said Letters Patent and said equivalents thereof which may be necessary or desirable to carry out the purposes thereof and to perform any other lawful acts which may be deemed necessary to secure fully the aforesaid invention to said ASSIGNEE, its successors, assigns and legal representatives, but at its or their expense and charges, including the execution of applications for patents in foreign countries, and the execution of substitution, reissue, divisional or continuation applications and preliminary or other statements.

AND, we do hereby authorize and request the Commissioner of Patents of the United States to issue such Letters Patent as shall be granted upon said application or applications based thereon to said ASSIGNEE, its successors, assigns, and legal representatives.

IN WITNESS WHEREOF, I have hereunto set hand and seal this	3 1 5 44 day of
Date: X June 13 2001 X Signature of Christop	
Signature of Christop	her C. Fraser
NOTARIZATION ACCOMPANYING ASSIG	SNMENT
State/Commonwealth of Massachusetts County of Middlesex	
Before me this 15th day of 1001, p and Christopher C. Fraser, to me known to be the person describe foregoing assignment instrument and acknowledged to me that hown free will for the purpose therein expressed.	bed in, and who executed
	<i>f.</i> :
Signature of Notary Pu	blic
	PIVLAU
Print Name My Commission expire	9/1/2000
My Commission expire	S: ///occ

IN WITNESS WHEREOF, I has	ve hereunto set hand and seal this day 01.
Date: X June 19 2001	x Thomas M Banes
	Signature of Thomas M. Barnes
NOTARIZATION	ACCOMPANYING ASSIGNMENT
State/Commonwealth of Massac County of Middlesey.	clusetts.
named Thomas M. Barnes, to me know	2001, personally appeared the above wn to be the persons described in, and who executed the cknowledged to me that he executed the same of his own sed.
	Signature of Notary Public Simonne CORRIVEGU
•	Print Name My Commission expires: 9/1/2006

of	IN WITNESS WHEREOF, I have hereunto set hand and seal this day
Date: ½	Signature of John D. Shapp
	NOTARIZATION ACCOMPANYING ASSIGNMENT
	Commonwealth of Massachusetts of Middlesex
named foregoi	Before me this day of day of 2001, personally appeared the above John D. Sharp, to me known to be the person described in, and who executed the ang assignment instrument and acknowledged to me that he executed the same of his own ll for the purpose therein expressed.
	Signature of Notary Public
	Simonne Carriveou
	Print Name My Commission expires: 9/1/2006

IN WITNESS WHEREOF, I have lof, 2001.	hereunto set hand and seal this day
Date: X 10 July 2001	Signature of Susan J. Kirst
NOTARIZATION AC	CCOMPANYING ASSIGNMENT
State/Commonwealth of Massachusetts County of	
Before me this day of named <b>Susan J. Kirst</b> , to me known to be foregoing assignment instrument and ackn free will for the purpose therein expressed	2001, personally appeared the above the person described in, and who executed the above toward to me that she executed the same of her own.
	Alledor wasel Signature of Notary Public
	Print Name LORING AlliN My Commission expires:

LORINA G. ALLIN NOTARY PUBLIC
MY COMMISSION EOPIRES APRIL 11, 2008

of	IN WITNESS WHEREOF, I have hereunto set hand and seal thisday
Date	× (0/28/0) × Ponlym Signature of Paul S. Myers
	NOTARIZATION ACCOMPANYING ASSIGNMENT
	e/Commonwealth of Massachusetts  nty of
fore	Before me this <u>arth</u> day of <u>Tiene</u> 2001, personally appeared the above ed <b>Paul S. Myers</b> , to me known to be the person described in, and who executed the going assignment instrument and acknowledged to me that he executed the same of his own will for the purpose therein expressed.
	Signature of Notary Public  Lena M. Beng Fores  Print Name  My Commission expires: 3/3//06

IN WITNESS WHEREOF, I have he of, 2001.	ereunto set hand and seal this day
Date: & 6-20-01	Signature of Kevin R. Leiby
NOTARIZATION ACC	COMPANYING ASSIGNMENT
State/Commonwealth of Massaclus County of Middlesey	wit
named <b>Kevin R. Leiby</b> , to me known to be foregoing assignment instrument and ackno	2001, personally appeared the above the person described in, and who executed the wledged to me that he executed the same of his own
free will for the purpose therein expressed.	Linous Journeau
	Signature of Notary Public Sinone Corriveau  Print Name
	My Commission expires: 9/1/2006.

of	IN WITNESS WHEREOF, I have hereunto set hand and seal this
Date:	× 6/19/01 × Aufas Aufas A. Holtzman
	NOTARIZATION ACCOMPANYING ASSIGNMENT
	Commonwealth of Massachusetts y of Middlesex
forego	Before me this day of 2001, personally appeared the above Douglas A. Holtzman, to me known to be the person described in, and who executed the ing assignment instrument and acknowledged to me that he executed the same of his own ill for the purpose therein expressed.
	Simone Corrieran
	Signature of Notary Public  Simonal Corrivacy  Print Name  My Commission expires: 9/1/2006

of, 2001.	nereunto set hand and seal this Z ~ day
Date: $X = 7/7/01$	Signature of Sean A. McCarthy
Witness	4605 Campus Ave #3 San Diego (A92116) Address
Hason adars Witness	4317 Maryland St. San Diego, CA Address
State/Commonwealth of Massachusetts County of Middlesex	
who executed the foregoing assignme	2001, personally appeared the known to be the person described in, and nt instrument and acknowledged to me that e will for the purpose therein expressed.
·	Signature of Notaty Public
	Print Name
	My Commission evaluate (4)

of	IN WITNESS WHEREOF, I have hereunto set hand and seal this day day
Date:	Y 6/20/01 X Nicholas Wrighton
	NOTARIZATION ACCOMPANYING ASSIGNMENT
State Cour	Commonwealth of Massachusetts  Aty of Mafolk
foreg	Before me this <u>204h</u> day of <u>Tune</u> 2001, personally appeared the above ed <b>Nicholas Wrighton</b> , to me known to be the person described in, and who executed the going assignment instrument and acknowledged to me that he executed the same of his own will for the purpose therein expressed.
	Signature of Notary Public  Leng M. Geographes  Print Name  My Commission expires: 3/31/06

IN WITNESS WHEREOF, I have he of, 2001.	ereunto set hand and seal this 25 th day
Date: 1 June 25th 2001	X Clel Makey Signature of Charles R. Mackay
X Alison Saughor Witness	X1/211 Bondi Rd Bondi NSW 2026 Address Australia.
Witness Of	× 222/25 Best St. Lone Care NSW 2066 Address
State/Commonwealth of Massachusett County of Middlesex	s
named Charles R. Mackay, to me kn	2001, personally appeared the above own to be the persons described in, and who instrument and acknowledged to me that he executed the purpose therein expressed.
	.' //
	Signature of Notary
	Print Name
	My Commission expires:

IN WITNESS WHEREOF, I of	have hereunto set hand and seal this
Witness	Address
Witness	Address

State/Commonwealth of Massachusetts County of Middlesex

Before me this 19th day of June, 2001, personally appeared the above named ANDREW D.J. GOODEARL, TO ME known to be the person described in, and who executed the foregoing assignment instrument and acknowledged to me that he executed the same of his own free will for the purpose therein expressed.

Notary Public - Simonne Corriveau My Commission expires: 9/1/2006